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[1. H-SB016.1-001: Security Systems Video/Audio Interoperability Device](#)

Release Date: 12-01-2015 Open Date: 12-16-2015 Due Date: 01-20-2016 Close Date: 01-20-2016

TECHNOLOGY AREAS: video/audio transmission, video/audio interoperability, security systems, surveillance cameras, security cameras, CCTV, incident command, situational awareness OBJECTIVE: Develop a prototype video/audio interoperability device that enables authorized users to access video security systems and rebroadcast the signals with the ease of a "plug and play" solution. DESCRIPTION: Firs ...

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[2. H-SB016.1-002: Applicability of Blockchain Technology to Privacy Respecting Identity Management](#)

Release Date: 12-01-2015 Open Date: 12-16-2015 Due Date: 01-20-2016 Close Date: 01-20-2016

TECHNOLOGY AREAS: Identity, Privacy, and Cybersecurity OBJECTIVE: Design information security and privacy concepts on the blockchain to support identity management capabilities that increase security and productivity while decreasing costs and security risks for the

Homeland Security Enterprise (HSE).DESCRIPTION: Blockchain technologies, if incorporated with the security and privacy capabilities re ...

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[3. H-SB016.1-003: Malware Prediction for Situational Understanding and Preemptive Cyber Defense](#)

Release Date: 12-01-2015Open Date: 12-16-2015Due Date: 01-20-2016Close Date: 01-20-2016

TECHNOLOGY AREAS: Cyber Security, Cyber Attack Modeling, Resilient Systems, Situational Awareness, Situational UnderstandingOBJECTIVE: Develop predictive malware capability and demonstrate a cyber defense method that uses prediction of malware developments to support situational understanding and defensive actionsDESCRIPTION: Situational Understanding for Cyber Security is in its infancy. Although ...

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[4. H-SB016.1-004: Autonomous Indoor Navigation and Tracking of First Responders](#)

Release Date: 12-01-2015Open Date: 12-16-2015Due Date: 01-20-2016Close Date: 01-20-2016

TECHNOLOGY AREAS: Communications, Interoperability, Emergency Preparedness, Response, Community Resiliency, Smart Devices, WearablesOBJECTIVE: Develop a wearable capability for autonomous indoor navigation and tracking of first responders indoors in various types of building structures.DESCRPTION: The S&T First Responders Group (FRG) is devoted to meeting the needs of the first responder comm ...

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[5. H-SB016.1-005: Internet of Things \(IoT\) Low-Cost Flood Inundation Sensor](#)

Release Date: 12-01-2015Open Date: 12-16-2015Due Date: 01-20-2016Close Date: 01-20-2016

TECHNOLOGY AREAS: Flood Resilient Communities; Information Sharing; Interoperable Communications; Wireless Emergency Alerts; Alerts (WEA); Warnings and Notifications; Deployables; Internet of Things (IoT); Sensor Web Enablement; Mesh NetworkOBJECTIVE: Develop deployable, low-cost flood inundation sensor for alerts, warnings and notifications to responders and citizens using IoT Wireless Emergency ...

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[6. H-SB016.1-006: Low-Cost, Real-Time Data Analytics for Underserved EMS Agencies](#)

Release Date: 12-01-2015Open Date: 12-16-2015Due Date: 01-20-2016Close Date: 01-20-2016

TECHNOLOGY AREAS: Communications, predictive (data) analytics, information sharing, incident response and management, operational framework, real-time incident management.OBJECTIVE: A low-cost, real-time data analytics solution to enable underserved Emergency Medical Service (EMS) and first responder agencies to improve quality and responseDESCRIPTION: While the United States has a National emerge ...

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[7. H-SB016.1-007: Real-Time Assessment of Resilience and Preparedness](#)

Release Date: 12-01-2015Open Date: 12-16-2015Due Date: 01-20-2016Close Date: 01-20-2016

TECHNOLOGY AREAS: Community, Economic & Infrastructure Resilience; Emergency Preparedness and Response; Natural Disasters and Related Geophysical Studies; Advanced Data Analysis and Visualization; and Communications & InteroperabilityOBJECTIVE: Develop an application to assess a community's posture with respect to resilience factors (to be provided by the government) using open-source da ...

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[8. H-SB016.1-008: Using Social Media to Support Timely and Targeted Emergency Response Actions](#)

Release Date: 12-01-2015Open Date: 12-16-2015Due Date: 01-20-2016Close Date: 01-20-2016

TECHNOLOGY AREAS: Communications, information sharing, technology acquisition, Computer Aided Dispatch (CAD), data analytics, social media, crowd-sourcingOBJECTIVE: Develop a data analytics engine (set of algorithms) to correlate social media comments and activity with real time agency CAD incident data.DESCRPTION: Social media outlets, such as Facebook, Twitter, Instagram, and Snapchat, to name ...

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[9. H-SB016.1-009: Blockchain Applications for Homeland Security Analytics](#)

Release Date: 12-01-2015Open Date: 12-16-2015Due Date: 01-20-2016Close Date: 01-20-2016

TECHNOLOGY AREAS: Identity, encryption, authentication, cyber security, internet of things, and data analyticsOBJECTIVE: Design a product to support the implementation of block chain based data management, data analysis, and information sharing.DESCRPTION: Blockchain technologies potentially offer a very flexible, low cost, and secure means of implementing data analytics architectures. In the vir ...

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[10. H-SB016.1-010: Remote Identity Proofing Alternatives to Knowledge Based Authentication/Verification](#)

Release Date: 12-01-2015Open Date: 12-16-2015Due Date: 01-20-2016Close Date:

01-20-2016

TECHNOLOGY AREAS: Identity, Fraud, and CybersecurityOBJECTIVE: Design and demonstrate the feasibility of high assurance alternatives to knowledgebased verification techniques for population scale remote identity proofing.DESCRPTION: The vast majority of organizations remotely identity proof an individual using a Knowledge Based Verification (KBV) or Knowledge Based Authentication (KBA) technique; ...

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